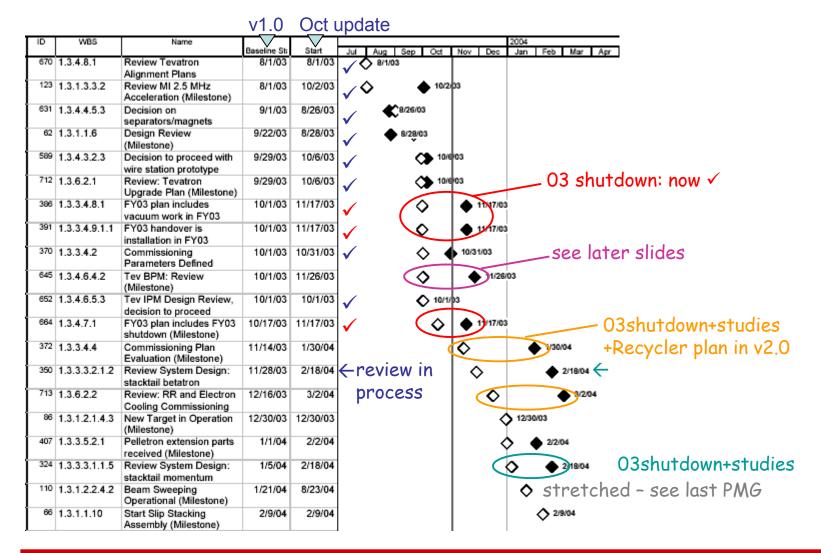
Run II Upgrade

Monthly Report for October

- Milestones and Reviews
- % complete summary (reported against v1.0)
 - e-Cool Shutdown in 2005
 - Tev BPM Project
- Prep for v2.0

Milestones

milestones <Feb review ordered by v1.0 baseline date (V1.0 estimates ~May)



% Complete

Cummulative Perf/Sched: Aug Sep Oct

86 85 77%

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			August		September		October		Cum Perf/Sc		hed	
WBS	Name	TEC	Schd/	Perf/	Schd/	Perf/	Schd/	Perf/	Aug	Sep	Oct	
20	- (4		TEC	TEC	TEC	TEC	TEC	TEC	· ·	•		
1	Run II - Jeff Spalding	\$42,318,244	11%	10%	14%	12%	19%	15%	86%	85%	77%	
1.2	Maintenance and Reliability - Paul Czarapata	\$5,686,356	3%	3%	8%	8%	12%	12%	92%	100%	100%	
1.3	Luminosity Upgrades	\$36,631,888	13%	11%	15%	13%	20%	15%	86%	84%	75%	
1.3.1	Protons on Pbar Target - Ioanis Kourbanis	\$4,160,962	12%	9%	14%	9%	30%	24%	74%	65%	80%	
1.3.1.1	Slip Stacking	\$1,542,046	23%	18%	23%	19%	61%	56%	80%	82%	92%	
1.3.1.2	Pbar Target and Sweeping	\$242,779	44%	38%	53%	39%	63%	43%	85%	72%	68%	
1.3.1.3	MI Upgrades	\$2,304,246	1%	0%	3%	0%	5%	0%	0%	0%	0%	
1.3.1.4	Booster-MI Cogging	\$71,891	36%	16%	54%	0%	67%	54%	45%	0%	80%	
1.3.2	Pbar Acceptance - Steve Werkema	\$5,391,732	11%	9%	13%	11%	15%	11%	78%	80%	73%	
1.3.2.1	Lithium Lens Upgrades	\$1,377,763	24%	18%	26%	20%	27%	20%	76%	76%	75%	
1.3.2.2	AP2 and Debuncher Acceptance	\$4,013,969	7%	6%	9%	7%	11%	8%	81%	84%	71%	
1.3.3	Pbar Stacking and Cooling - Paul Derwent	\$7,891,787	8%	6%	10%	8%	15%	9%	69%	73%	59%	
1.3.3.1	Stacking and Cooling Integration	\$609,580	19%	19%	22%	22%	25%	25%	102%	102%	101%	
1.3.3.2	Debuncher Cooling	\$28,248	100%	63%	100%	63%	100%	63%	63%	63%	63%	
1.3.3.3	Stacktail Cooling	\$2,382,129	1%	0%	1%	0%	2%	1%	33%	34%	39%	4 Danielan
1.3.3.4	Recycler Stacking and Cooling	\$1,073,283	3%	3%	4%	4%	9%	4%	94%	96%	48%	Recycler
1.3.3.5	Electron Cooling	\$2,100,761	19%	12%	24%	17%	38%	22%	65%	72%	58%	Recycler e-Cool
1.3.3.6	Rapid Transfers	\$1,697,786	3%	1%	4%	1%	5%	1%	41%	32%	26%	shutdown
1.3.4	Tevatron High Luminosity - Vladimir Shiltsev	\$16,371,987	14%	13%	17%	15%	21%	16%	91%	88%	75%	Shurdown
1.3.4.1	Tevatron Task Force	\$2,599,926	16%	16%	18%	18%	20%	20%	102%	102%	101%	
1.3.4.2	Beam-beam Limitations	\$639,969	16%	16%	18%	18%	20%	20%	101%	101%	101%	
1.3.4.3	Active Beam-Beam Compensation	\$3,593,262	17%	8%	19%	8%	21%	8%	48%	43%	38%	
1.3.4.4	Increased Helix Separation	\$3,748,975	7%	7%	7%	7%	8%	7%	104%	99%	91%	
1.3.4.5	Luminosity Leveling	\$18,335	0%	0%	0%	0%	0%	0%				
1.3.4.6	Improved Control and Diagnostics	\$4,106,489	17%	18%	21%	21%	32%	24%	102%	101%	76%	Tev BPM
1.3.4.7	Tevatron Vacuum Improvements	\$125,725	0%	0%	0%	0%	0%	0%				← Tev BPM proj. plan
1.3.4.8	Tevatron Alignment	\$1,539,307	13%	18%	26%	28%	32%	28%	138%	108%	86%	22 pi oj. pian
1.3.6	Project Management - Jeff Spalding	\$2,815,419	19%	19%	21%	21%	23%	23%	102%	101%	101%	

Comparing to v1.0(~May) - need baseline update

e-Cooling

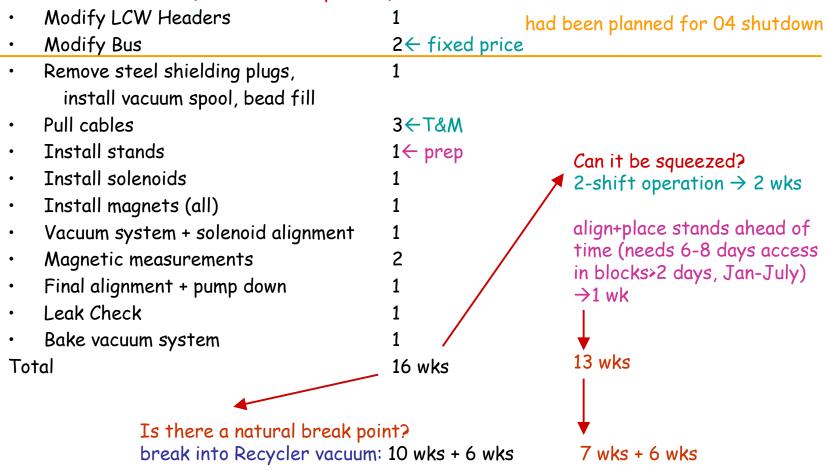
- Operating full beamline at WideBand going well on schedule for March 19 milestone (beam properties demonstrated)
- However, 3-4 weeks of prep work in MI tunnel not done this shutdown

 adds the shutdown need in 2004
- Also, re-evaluated work for v2.0 → adds 3 weeks

e-Cooling 04 shutdown (first pass)

Shutdown Worklist

Timeline drivers (other tasks in parallel)



First pass: e-Cooling will need ~13 wks of shutdown after July 1

Tev BPM Project

- Requirements document updated and reviewed
- Developing hardware and software specs
- 3-way technology choice:
 - a) e-Cooling style board (B Chase): in-house redesign
 - b) MI damper style board: in-house redesign
 - c) New faster Echotek board: commercial
- Taken test data with (a) and setting up data-taking with (b)
- In contact with vendor for (c): availability?
- Review technology choice Dec 10 [?]
 - Technical performance / specs
 - Cost (all costs) and schedule (design cycles)
 - Long-term maintenance
 - Applicability to beamline and MI BPM upgrades?
- Project supported heavily by Comp Div. (joint team CD&BD)
 - Steve Wolbers (Proj Mgr), Bob Webber (Deputy)
- Candidate for FYO4 AIP project

Prep for v2.0

- All subprojects are updating the RLS logic and estimates
 - Due Nov 30 (except for Recycler: Dec 15?)
 - Tevatron and Recycler will be late (major scope updates)
- Aim to be sufficiently complete to discuss schedule for shutdowns at next PMG
- Starting to plan the accompanying document content/outline at next PMG
- Updated long range shutdown schedule

•	Internal completion v2.0	Dec 31
•	Internal Review	~Jan 20
•	Send to DOE	Jan 30
•	DOE Review	Feb 24-26

Other Issues

We are:

- Developing project plan for RLS v2.0
- Tracking progress via RLS v1.0
- Holding Technical Reviews → scope and punctuation points

We are not yet:

- Cost reporting
- Plan to collect actual costs from October 1
- Need additional help ← in discussion with Harlan...